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| NEWS | 3 FEB 28 | PATDPAFULL - New display fields provide for legal status data from INPADOC |
| NEWS | 4 FEB 28 | BABS - Current-awareness alerts (SDIs) available |
| NEWS | 5 MAR 02 | GBFULL: New full-text patent database on STN |
| NEWS | 6 MAR 03 | REGISTRY/ZREGISTRY - Sequence annotations enhanced |
| NEWS | 7 MAR 03 | MEDLINE file segment of TOXCENTER reloaded |
| NEWS | 8 MAR 22 | KOREAPAT now updated monthly; patent information enhanced |
| NEWS | 9 MAR 22 | Original IDE display format returns to REGISTRY/ZREGISTRY |
| NEWS | 10 MAR 22 | PATDPASPC - New patent database available |
| NEWS | 11 MAR 22 | REGISTRY/ZREGISTRY enhanced with experimental property tags |
| NEWS | 12 APR 04 | EPFULL enhanced with additional patent information and new fields |
| NEWS | 13 APR 04 | EMBASE - Database reloaded and enhanced |
| NEWS | 14 APR 18 | New CAS Information Use Policies available online |
| NEWS | 15 APR 25 | Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications. |
| NEWS | 16 APR 28 | Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus |
| NEWS | 17 MAY 23 | GBFULL enhanced with patent drawing images |
| NEWS | 18 MAY 23 | REGISTRY has been enhanced with source information from CHEMCATS |
| NEWS | 19 JUN 06 | The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available |
| NEWS | 20 JUN 13 | RUSSIAPAT: New full-text patent database on STN |
| NEWS | 21 JUN 13 | FRFULL enhanced with patent drawing images |
| NEWS | 22 JUN 27 | MARPAT displays enhanced with expanded G-group definitions and text labels |
| NEWS | 23 JUL 01 | MEDICONF removed from STN |
| NEWS | 24 JUL 07 | STN Patent Forums to be held in July 2005 |
| NEWS | 25 JUL 13 | SCISEARCH reloaded |
| NEWS | 26 JUL 20 | Powerful new interactive analysis and visualization software, STN AnaVist, now available |
| NEWS | 27 AUG 11 | Derwent World Patents Index(R) web-based training during August |
| NEWS | 28 AUG 11 | STN AnaVist workshops to be held in North America |
| NEWS | 29 AUG 30 | CA/CAplus -Increased access to 19th century research documents |
| NEWS | 30 AUG 30 | CASREACT - Enhanced with displayable reaction conditions |
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38 FILES SEARCHED...
58 FILES SEARCHED...
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122 FILES SEARCHED...
L1 572 FERN AND (PHYTOREMEDIATION OR BIOREMEDIATION)

=> s 11 and (metal? or arsenic)
5 FILES SEARCHED...
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L2 493 L1 AND (METAL? OR ARSENIC)

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123 FILES SEARCHED...
L3 333 L2 AND PTERIS?

=> s 13 and (water or soil)
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62 FILES SEARCHED...
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L4 275 L3 AND (WATER OR SOIL)

=> S 14 and (Adianta? or Asplenia? or Dryopter? or Oleand?)
40 FILES SEARCHED...
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117 FILES SEARCHED...
L5 54 L4 AND (ADIANTA? OR ASPLENTIA? OR DRYOPTER? OR OLEAND?)

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4 FILES SEARCHED...
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'1999' NOT A VALID FIELD CODE
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=> S 15 not PY>1999
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DN 06252108
TI Uptake and distribution of selenium in different fern species

AU Srivastava, M.; Ma, L.Q.; Cotruvo, J.A.
eMail: Lqma@ufl.edu
CS Soil and Water Science Dept., University of Florida, Gainesville, FL
32611-0290, USA
SO International Journal of Phytoremediation, vol. 7, no. 1, pp. 33-42,
2005, 20050000
ISSN: 1522-6574
DT Journal
LA English

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AN 2005:279782 CAPLUS
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AU Srivastava, Mrittunjai; Ma, Lena Q.; Cotruvo, Joseph A.
CS Soil and Water Science Department, University of Florida, Gainesville, FL,
32611-0290, USA
SO International Journal of Phytoremediation (2005), 7(1), 33-42
CODEN: IJPHFG; ISSN: 1522-6514
PB Taylor & Francis, Inc.
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DN 141:300291
TI Contaminant removal by **ferns** via foliar-application and
excised/ground fronds
IN Ma, Lena Q.; Tu, Mike Shuxin; Fayiga, Abioye O.
PA USA
SO U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S. Ser. No. 756,237.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 2004197812 | A1 | 20041007 | US 2004-825993 | 20040416 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |
| | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
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| PRAI | US 1999-129203P | P | 19990414 | | |
| | US 1999-471566 | A2 | 19991223 | | |
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AN 2004:609550 CAPLUS
DN 141:128040
TI Compositions and methods for removing pollutants from contaminated
water using a **fern** plant
IN Ma, Lena Q.; Tu, Cong
PA USA
SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 948,969,
abandoned.
CODEN: USXXCO
DT Patent

LA English

FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |
| | US 2004197812 | A1 | 20041007 | US 2004-825993 | 20040416 |
| | US 2005082221 | A1 | 20050421 | US 2004-961932 | 20041008 |
| PRAI | US 1999-129203P | P | 19990414 | | |
| | US 1999-471566 | A2 | 19991223 | | |
| | US 2000-546941 | A3 | 20000411 | | |
| | US 2001-948969 | B2 | 20010907 | | |
| | US 2004-756237 | A2 | 20040112 | | |
| | US 2004-825993 | A2 | 20040416 | | |

L5 ANSWER 4 OF 54 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:755667 CAPLUS

DN 135:288208

TI Soil phytoremediation using ferns.

IN Ma, Lena Q.; Komar, Ken M.; Knelley, Elizabeth D.

PA University of Florida, Gainesville, FL, USA

SO U.S., 14 pp., Cont.-in-part of U.S. 6,280,500.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |
| | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
| | US 2004197812 | A1 | 20041007 | US 2004-825993 | 20040416 |
| | US 2005082221 | A1 | 20050421 | US 2004-961932 | 20041008 |
| PRAI | US 1999-129203P | P | 19990414 | | |
| | US 1999-471566 | A2 | 19991223 | | |
| | US 2000-546941 | A3 | 20000411 | | |
| | US 2001-948969 | B2 | 20010907 | | |
| | US 2004-756237 | A2 | 20040112 | | |
| | US 2004-825993 | A2 | 20040416 | | |

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 54 IFIPAT COPYRIGHT 2005 IFI on STN

AN 10843505 IFIPAT;IFIUDB;IFICDB

TI CONTAMINANT REMOVAL BY ADDITIONAL FERNS

IN Luongo Thomas; Ma Lena Q; Singh Nandita (IN); Srivastava Mrittunjai

PA Unassigned Or Assigned To Individual (68000)

PI US 2005082221 A1 20050421

AI US 2004-961932 20041008

| | | | | |
|-----|----------------|----------|----------------------|-----------|
| RLI | US 1999-471566 | 19991223 | CONTINUATION-IN-PART | 6280500 |
| | US 2001-948969 | 20010907 | CONTINUATION-IN-PART | ABANDONED |
| | US 2004-756237 | 20040112 | CONTINUATION-IN-PART | PENDING |
| | US 2004-825993 | 20040416 | CONTINUATION-IN-PART | PENDING |
| | US 2000-546941 | 20000411 | DIVISION | 6302942 |

PRAI US 1999-129203P 19990414 (Provisional)

FI US 2005082221 20050421

US 6280500

US 6302942

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 57

L5 ANSWER 6 OF 54 IFIPAT COPYRIGHT 2005 IFI on STN

AN 10636928 IFIPAT;IFIUDB;IFICDB

TI COMPOSITIONS AND METHODS FOR REMOVING POLLUTANTS FROM CONTAMINATED
WATER WITH A **FERN** PLANT

IN Ma Lena Q; Tu Cong

PA Unassigned Or Assigned To Individual (68000)

PI US 2004144155 A1 20040729

AI US 2004-756237 20040112

RLI US 1999-471566 19991223 CONTINUATION-IN-PART 6280500
US 2001-948969 20010907 CONTINUATION-IN-PART ABANDONED

US 2000-546941 20000411 DIVISION 6302942

PRAI US 1999-129203P 19990414 (Provisional)

FI US 2004144155 20040729

US 6280500

US 6302942

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 46

GI 2 Figure(s).

FIG. 1A is a graph of **fern** plant height or leaf number vs.
growth time of Example 11.

FIG. 1B is a graph of **arsenic** content vs. growth period of
Example 11.

L5 ANSWER 7 OF 54 IFIPAT COPYRIGHT 2005 IFI on STN

AN 03589219 IFIPAT;IFIUDB;IFICDB

TI METHODS FOR REMOVING POLLUTANTS FROM CONTAMINATED **SOIL**

MATERIALS WITH A **FERN** PLANT

IN Kennelley Elizabeth D; Komar Ken M; Ma Lena Q

PA Florida, University of (31139)

PI US 6302942 B1 20011016 (CITED IN 001 LATER PATENTS)

AI US 2000-546941 20000411

RLI US 1999-471566 19991223 CONTINUATION-IN-PART 6280500

PRAI US 1999-129203P 19990414 (Provisional)

FI US 6302942 20011016

US 6280500

DT Utility

FS CHEMICAL

GRANTED

OS CA 135:291990

MRN 010707 MFN: 0241

CLMN 50

GI 1 Drawing Sheet(s), 2 Figure(s).

L5 ANSWER 8 OF 54 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
on STN

AN 2004-0515092 PASCAL

CP Copyright .COPYRGT. 2004 INIST-CNRS. All rights reserved.

TIEN Phytofiltration of **arsenic** from drinking **water** using

arsenic-hyperaccumulating **ferns**

AU HUANG Jianwei W.; POYNTON Charissa Y.; KOCHIAN Leon V.; ELLESS Mark P.

CS Edenspace Systems Corporation, Dulles, Virginia 20151, United States;
U.S. Plant, Soil, and Nutrition Laboratory, USDA-ARS, Cornell
University, Ithaca, New York 14850, United States

SO Environmental science & technology, (2004), 38(12), 3412-3417, 22 refs.
ISSN: 0013-936X CODEN: ESTHAG

DT Journal

BL Analytic

CY United States

LA English

AV INIST-13615, 354000112049560290

L5 ANSWER 9 OF 54 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN

AN 2005:463831 SCISEARCH

GA The Genuine Article (R) Number: 919YI

TI Uptake and distribution of selenium in different **fern** species

AU Srivastava M; Ma L Q (Reprint); Cotruvo J A

CS Univ Florida, Dept Soil & Water Sci, Gainesville, FL 32611 USA (Reprint);

Joseph Cotruvo & Associates, Washington, DC USA

Lqma@ufl.edu

CYA USA

SO INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, (2005) Vol. 7, No. 1, pp.
33-42.

ISSN: 1522-6514.

PB CRC PRESS LLC, 2000 CORPORATE BLVD NW, JOURNALS CUSTOMER SERVICE, BOCA
RATON, FL 33431 USA.

DT Article; Journal

LA English

REC Reference Count: 34

ED Entered STN: 12 May 2005

Last Updated on STN: 12 May 2005

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L5 ANSWER 10 OF 54 USPATFULL on STN

AN 2005:96314 USPATFULL

TI Contaminant removal by additional **ferns**

IN Ma, Lena Q., Gainesville, FL, UNITED STATES

Luongo, Thomas, High Springs, FL, UNITED STATES

Srivastava, Mrittunjai, Gainesville, FL, UNITED STATES

Singh, Nandita, Kaiserbagh, INDIA

PI US 2005082221 A1 20050421

AI US 2004-961932 A1 20041008 (10)

RLI Continuation-in-part of Ser. No. US 2004-825993, filed on 16 Apr 2004,
PENDING Continuation-in-part of Ser. No. US 2004-756237, filed on 12 Jan
2004, PENDING Continuation-in-part of Ser. No. US 2001-948969, filed on
7 Sep 2001, ABANDONED Division of Ser. No. US 2000-546941, filed on 11
Apr 2000, GRANTED, Pat. No. US 6302942 Continuation-in-part of Ser. No.
US 1999-471566, filed on 23 Dec 1999, GRANTED, Pat. No. US 6280500

PRAI US 1999-129203P 19990414 (60)

DT Utility

FS APPLICATION

LN.CNT 899

INCL INCLM: 210/601.000

INCLS: 800/295.000

NCL NCLM: 210/601.000

NCLS: 800/295.000

IC [7]

ICM: A01H009-00

ICS: C02F003-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 54 USPATFULL on STN

AN 2004:254286 USPATFULL

TI Contaminant removal by **ferns** via foliar-application and
excised/ground fronds

IN Ma, Lena Q., Gainesville, FL, UNITED STATES

Tu, Mike Shuxin, Wuhan, CHINA

Fayiga, Abioye O., Gainesville, FL, UNITED STATES

PI US 2004197812 A1 20041007

AI US 2004-825993 A1 20040416 (10)

RLI Continuation-in-part of Ser. No. US 2004-756237, filed on 12 Jan 2004,
PENDING Continuation-in-part of Ser. No. US 2001-948969, filed on 7 Sep
2001, ABANDONED Division of Ser. No. US 2000-546941, filed on 11 Apr
2000, GRANTED, Pat. No. US 6302942 Continuation-in-part of Ser. No. US
1999-471566, filed on 23 Dec 1999, GRANTED, Pat. No. US 6280500

PRAI US 1999-129203P 19990414 (60)

DT Utility

FS APPLICATION

LN.CNT 927

INCL INCLM: 435/006.000

INCLS: 072/712.000

NCL NCLM: 435/006.000

NCLS: 072/712.000

IC [7]

ICM: C12Q001-68

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 54 USPATFULL on STN
AN 2004:187402 USPATFULL
TI Compositions and methods for removing pollutants from contaminated
water with a fern plant
IN Ma, Lena Q., Gainesville, FL, UNITED STATES
Tu, Cong, Raleigh, NC, UNITED STATES
PI US 2004144155 A1 20040729
AI US 2004-756237 A1 20040112 (10)
RLI Continuation-in-part of Ser. No. US 2001-948969, filed on 7 Sep 2001,
ABANDONED Division of Ser. No. US 2000-546941, filed on 11 Apr 2000,
GRANTED, Pat. No. US 6302942 Continuation-in-part of Ser. No. US
1999-471566, filed on 23 Dec 1999, GRANTED, Pat. No. US 6280500
PRAI US 1999-129203P 19990414 (60)
DT Utility
FS APPLICATION
LN.CNT 1137
INCL INCLM: 072/712.000
INCLS: 210/602.000
NCL NCLM: 047/058.100R
NCLS: 210/602.000
IC [7]
ICM: C02F003-32
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 13 OF 54 USPATFULL on STN
AN 2002:339270 USPATFULL
TI Methods of creating dwarf phenotypes in plants
IN Pogue, Gregory P., Vacaville, CA, UNITED STATES
Della-Cioppa, Guy R., Vacaville, CA, UNITED STATES
Wolfe, Gershon M., Davis, CA, UNITED STATES
Zheng, Wenjin, Davis, CA, UNITED STATES
PI US 2002194646 A1 20021219
AI US 2001-910664 A1 20010720 (9)
PRAI US 2000-219943P 20000720 (60)
DT Utility
FS APPLICATION
LN.CNT 8200
INCL INCLM: 800/290.000
INCLS: 800/320.000; 800/317.300; 800/319.000
NCL NCLM: 800/290.000
NCLS: 800/317.300; 800/319.000; 800/320.000
IC [7]
ICM: A01H005-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 14 OF 54 USPATFULL on STN
AN 2002:104075 USPATFULL
TI Compositions and methods for removing pollutants from contaminated
materials
IN Ma, Lena Q., Gainesville, FL, UNITED STATES
Komar, Ken M., Gainesville, FL, UNITED STATES
Kennelley, Elizabeth D., Archer, FL, UNITED STATES
PA University of Florida (U.S. corporation)
PI US 2002053259 A1 20020509
AI US 2001-948969 A1 20010907 (9)
RLI Division of Ser. No. US 2000-546941, filed on 11 Apr 2000, UNKNOWN
DT Utility
FS APPLICATION
LN.CNT 1139
INCL INCLM: 075/712.000
INCLS: 800/295.000
NCL NCLM: 075/712.000
NCLS: 800/295.000
IC [7]
ICM: E21B043-28
ICS: A01H009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 15 OF 54 USPATFULL on STN
AN 2001:178457 USPATFULL
TI Methods for removing pollutants from contaminated **soil**
materials with a **fern** plant
IN Ma, Lena Q., Gainesville, FL, United States
Komar, Ken M., Gainesville, FL, United States
Kennelley, Elizabeth D., Archer, FL, United States
PA University of Florida, Gainesville, FL, United States (U.S. corporation)
PI US 6302942 B1 20011016
AI US 2000-546941 20000411 (9)
RLI Continuation-in-part of Ser. No. US 1999-471566, filed on 23 Dec 1999
PRAI US 1999-129203P 19990414 (60)
DT Utility
FS GRANTED
LN.CNT 1184
INCL INCLM: 075/712.000
INCLS: 075/710.000; 075/711.000; 210/602.000; 047/058.100; 800/295.000
NCL NCLM: 075/712.000
NCLS: 075/710.000; 075/711.000; 210/602.000; 800/295.000
IC [7]
ICM: C22B003-18
ICS: C22B003-24
EXF 075/711; 075/712; 075/710; 210/602
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 16 OF 54 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 2005:279781 BIOSIS
DN PREV200510069786
TI Uptake and distribution of selenium in different **fern** species.
AU Srivastava, Mrittunjai; Ma, Lena Q. [Reprint Author]; Cotruvo, Joseph A.
CS Univ Florida, Dept Soil and Water Sci, Gainesville, FL 32611 USA
Lqma@ufl.edu
SO International Journal of Phytoremediation, (2005) Vol. 7, No. 1, pp.
33-42.
ISSN: 1522-6514.
DT Article
LA English
ED Entered STN: 27 Jul 2005
Last Updated on STN: 27 Jul 2005

L5 ANSWER 17 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2005:108167 CABA
DN 20053095928
TI Influence of the arbuscular mycorrhizal fungus Glomus mosseae on uptake of
arsenate by the As hyperaccumulator **fern** *Pteris*
vittata L
AU Liu, Y.; Zhu, Y. G.; Chen, B. D.; Christie, P.; Li, X. L.
CS Department of Plant Nutrition, China Agricultural University, 2
Yuanmingyuan Road, Beijing, 100094, China. lixl@cau.edu.cn
SO Mycorrhiza, (2005) Vol. 15, No. 3, pp. 187-192. 29 ref.
Publisher: Springer-Verlag GmbH. Heidelberg
ISSN: 0940-6360
URL: <http://springerlink.metapress.com/link.asp?id=100439>
DOI: 10.1007/s00572-004-0320-7
CY Germany, Federal Republic of
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L5 ANSWER 18 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2005:100640 CABA
DN 20053085060
TI Uptake and distribution of selenium in different **fern** species
AU Srivastava, M.; Ma, L. Q.; Cotruvo, J. A.
CS Soil and Water Science Department, University of Florida, Gainesville, FL

SO 32611-0290, USA. lqma@ufl.edu
International Journal of Phytoremediation, (2005) Vol. 7, No. 1, pp.
33-42. 34 ref.
Publisher: Taylor & Francis. Boca Raton
ISSN: 1522-6514
URL: <http://journalsonline.tandf.co.uk/link.asp?id=110771>

CY United States
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L5 ANSWER 19 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2005:100639 CABA
DN 20053085059
TI Phytoextraction: simulating uptake and translocation of **arsenic**
in a **soil**-plant system
AU Ouyang, Y.
CS Department of Water Resources, St. Johns River Water Management District,
P.O. Box 1429, Palatka, FL 32178-1429, USA. youyang@sjrwmd.com
SO International Journal of Phytoremediation, (2005) Vol. 7, No. 1, pp. 3-17.
27 ref.
Publisher: Taylor & Francis. Boca Raton
ISSN: 1522-6514
URL: <http://journalsonline.tandf.co.uk/link.asp?id=110771>

CY United States
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L5 ANSWER 20 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2005:97439 CABA
DN 20053079630
TI Antioxidant responses of hyper-accumulator and sensitive **fern**
species to **arsenic**
AU Srivastava, M.; Ma, L. Q.; Nandita Singh; Shraddha Singh; Singh, N.;
Singh, S.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lqma@ifas.ufl.edu
SO Journal of Experimental Botany, (2005) Vol. 56, No. 415, pp. 1335-1342. 42
ref.
Publisher: Oxford University Press. Oxford
ISSN: 0022-0957
URL: <http://www.jxb.oupjournals.org/>
DOI: 10.1093/jxb/eril34

CY United Kingdom
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L5 ANSWER 21 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2005:66680 CABA
DN 20053047344
TI Effects of controlled-release fertilizer application rates on frond color
and biomass production of an **arsenic** hyperaccumulating
fern
AU Stamps, R. H.; Rock, D. K.; Cantliffe, D. J. [EDITOR]; Stoffella, P. J.
[EDITOR]; Shaw, N. L. [EDITOR]
CS Mid-Florida Research and Education Center, Department of Environmental
Horticulture, Institute of Food and Agricultural Sciences, University of
Florida, 2725 Binion Road, Apopka, FL 32703-8504, USA.
SO Acta Horticulturae, (2004) No. 659(2), pp. 693-696. 12 ref.
Publisher: International Society for Horticultural Science (ISHS). Leuven
Price: Journal article; Conference paper ; 159 EURO (2 volumes).
Meeting Info.: Proceedings of the VIIth International Symposium on
Protected Cultivation in Mild Winter Climates: Production, Pest Management

and Global Competition, Kissimmee, Florida, USA, 23-27 March, 2004.

ISSN: 0567-7572; ISBN: 90-6605-259-7

URL: <http://www.actahort.org>

CY Belgium

DT Journal

LA English

ED Entered STN: 20050506

Last Updated on STN: 20050506

L5 ANSWER 22 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2005:2063 CABA

DN 20043183136

TI Phytoremoval of arsenic from soil

AU Campos, V.; Pires, M. A. F.

CS Energy and Nuclear Research Institute-IPEN, Chemistry and Environmental Center, Sao Paulo University, Rua Kyoto 98, Jardim Japao, Sao Paulo 02131-010, Brazil.. vcamposeusp.br

SO Communications in Soil Science and Plant Analysis, (2004) Vol. 35, No. 15/16, pp. 2137-2146. 9 ref.

Publisher: Marcel Dekker, Inc. Monticello

ISSN: 0010-3624

CY United States

DT Journal

LA English

ED Entered STN: 20050107

Last Updated on STN: 20050107

L5 ANSWER 23 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2004:176679 CABA

DN 20043162528

TI Effects of heavy metals on growth and arsenic accumulation in the arsenic hyperaccumulator *Pteris vittata* L

AU Fayiga, A. O.; Ma, L. Q.; Cao, X. D.; Rathinasabapathi, B.

CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lqma@ufl.edu

SO Environmental Pollution, (2004) Vol. 132, No. 2, pp. 289-296. 38 ref.

Publisher: Elsevier Science Ltd. Oxford

ISSN: 0269-7491

DOI: 10.1016/j.envpol.2004.04.020

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20041108

Last Updated on STN: 20041108

L5 ANSWER 24 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2004:172457 CABA

DN 20043154587

TI Investigation on plants in heavy-metal contaminated area

AU Lai FaYing; Ye QingHua; Tu ShuPing; Guo ChengZhi; Luo YunKuo; Lai, F. Y.; Ye, Q. H.; Tu, S. P.; Guo, C. Z.; Luo, Y. K.

CS College of Land Resources and Environment, JAU, Nanchang 330045, China.

SO Acta Agriculturae Universitatis Jiangxiensis, (2004) Vol. 26, No. 3, pp. 455-457. 5 ref.

Publisher: Jiangxi Agricultural University. Nanchang

ISSN: 1000-2286

CY China

DT Journal

LA Chinese

SL English

ED Entered STN: 20041108

Last Updated on STN: 20041108

L5 ANSWER 25 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2004:161203 CABA

DN 20043144739

TI Root distributions and elemental accumulations of Chinese brake (

AU **Pteris vittata** L.) from As-contaminated soils
Liao, X. Y.; Chen, T. B.; Lei, M.; Huang, Z. C.; Xiao, X. Y.; An, Z. Z.;
Zhu, Y. G. [EDITOR]; Smith, F. A. [EDITOR]
CS Laboratory of Environmental Remediation, Institute of Geographic Sciences
and Natural Resources Research, Chinese Academy of Sciences, Beijing
100101, China. chentb@igsnrr.ac.cn
SO Plant and Soil, (2004) Vol. 261, No. 1/2, pp. 109-116. 39 ref.
Publisher: Kluwer Academic Publishers. Dordrecht
Price: Journal article; Conference paper
Meeting Info.: Plant-soil interactions for better soil quality and food
security. International Workshop on Plant-Soil Interactions, Beijing,
China, 27-30 October 2002.
ISSN: 0032-079X
DOI: 10.1023/B:PLSO.0000035578.24164.fa
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20041022
Last Updated on STN: 20041022

L5 ANSWER 26 OF 54 CABO COPYRIGHT 2005 CABI on STN
AN 2004:159830 CABO
DN 20043143039
TI **Arsenic hyperaccumulation by Pteris vittata from arsenic contaminated soils and the effect of liming and phosphate fertilisation**
AU Caille, N.; Swanwick, S.; Zhao, F. J.; McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden,
Hertfordshire AL5 2JQ, UK. steve.mcgrath@bbsrc.ac.uk
SO Environmental Pollution, (2004) Vol. 132, No. 1, pp. 113-120. 36 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
DOI: 10.1016/j.envpol.2004.03.018
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20041022
Last Updated on STN: 20041022

L5 ANSWER 27 OF 54 CABO COPYRIGHT 2005 CABI on STN
AN 2004:114843 CABO
DN 20043088757
TI **Phytoremediation of arsenic-contaminated groundwater by the arsenic hyperaccumulating fern Pteris vittata L**
AU Tu, S.; Ma, L. Q.; Fayiga, A. O.; Zillioux, E. J.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lqma@ufl.edu
SO International Journal of Phytoremediation, (2004) Vol. 6, No. 1, pp.
35-47. 26 ref.
Publisher: CRC Press Inc. Boca Raton
ISSN: 1522-6514
DOI: 10.1080/16226510490439972
CY United States
DT Journal
LA English
ED Entered STN: 20040806
Last Updated on STN: 20040806

L5 ANSWER 28 OF 54 CABO COPYRIGHT 2005 CABI on STN
AN 2004:114838 CABO
DN 20043088752
TI **Arsenic speciation in Chinese brake fern by ion-pair high-performance liquid chromatography-inductively coupled plasma mass spectroscopy**
AU Chen, R. X.; Smith, B. W.; Winefordner, J. D.; Tu, M. S.; Kertulis, G.;
Ma, L. Q.
CS Department of Chemistry, University of Florida, P.O. Box 117200,

SO Gainesville, FL 32611-7200, USA. jdwin@chem.ufl.edu
Analytica Chimica Acta, (2004) Vol. 504, No. 2, pp. 199-207.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0003-2670
URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TF4-4B668DK-6&_user=10&_handle=B-WA-A-A-AY-MsSAYVW-UUA-AUYEDDWZAD-AUYDBCBAVD-VZCUZZAZE-AY-U&_fmt=summary&_coverDate=02%2F23%2F2004&_rdoc=1&_orig=browse&_srch=%23toc%235216%232004%23994959997%23476964!&_cdi=5216&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=f98b55ea45637e72803e29bcf8ac43bd
DOI: 10.1016/j.aca.2003.10.042

CY Netherlands Antilles

DT Journal

LA English

ED Entered STN: 20040806

Last Updated on STN: 20040806

L5 ANSWER 29 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2004:73956 CABA

DN 20043046338

TI Low molecular weight thiols in **arsenic** hyperaccumulator **Pteris vittata** upon exposure to **arsenic** and other trace elements

AU Cai, Y.; Su, J. H.; Ma, L. Q.

CS Department of Chemistry and Biochemistry, Southeast Environmental Research Center, Florida International University, Miami, FL 33199, USA.
cai@fiu.edu

SO Environmental Pollution, (2004) Vol. 129, No. 1, pp. 69-78. 45 ref.

Publisher: Elsevier Science Ltd. Oxford

ISSN: 0269-7491

DOI: 10.1016/j.envpol.2003.09.020

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20040511

Last Updated on STN: 20040511

L5 ANSWER 30 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2004:71945 CABA

DN 20043043725

TI Antioxidative responses to **arsenic** in the **arsenic**-hyperaccumulator Chinese brake **fern** (**Pteris vittata** L.)

AU Cao, X. D.; Ma, L. Q.; Tu, C.

CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611, USA. lqma@ufl.edu

SO Environmental Pollution, (2004) Vol. 128, No. 3, pp. 317-325. 36 ref.

Publisher: Elsevier Science Ltd. Oxford

ISSN: 0269-7491

DOI: 10.1016/j.envpol.2003.09.018

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20040511

Last Updated on STN: 20040511

L5 ANSWER 31 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2004:59972 CABA

DN 20043032081

TI Effects of **arsenic** species and phosphorus on **arsenic** absorption, arsenate reduction and thiol formation in excised parts of **Pteris vittata** L

AU Tu, S.; Ma, L. Q.; MacDonald, G. E.; Bondada, B.

CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lqma@ufl.edu

SO Environmental and Experimental Botany, (2004) Vol. 51, No. 2, pp. 121-131. 35 ref.

Publisher: Elsevier Science B.V. Amsterdam

CY ISSN: 0098-8472
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20040402
Last Updated on STN: 20040402

L5 ANSWER 32 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2004:51598 CABA
DN 20043013400
TI Arsenic biomonitoring using a hyperaccumulator fern (*Pteris vittata*)
AU Minganti, V.; Cornara, L.; Piana, M.; Corallo, A.; Mariotti, M. G.
CS Dipartimento di Chimica e Tecnologie Farmaceutiche ed Alimentari,
Universita di Genova, Via Brigata Salerno (ponte), 16147 Genova, Italy.
minganti@dictfa.unige.it
SO Journal of Environmental Monitoring, (2004) Vol. 6, No. 1, pp. 23-25. 16
ref.
Publisher: Royal Society of Chemistry. Cambridge
ISSN: 1464-0325
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20040402
Last Updated on STN: 20040402

L5 ANSWER 33 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2004:27848 CABA
DN 20033215465
TI Arsenic uptake by native fern species in Thailand:
effect of chelating agents on hyperaccumulation of arsenic by
Pityrogramma calomelanos
AU Wongkongkatep, J.; Fukushi, K.; Parkpian, P.; DeLaune, R. D.; Jugsujinda,
A.; Jirarut Wongkongkatep; Preeda Parkpian
CS Urban Environmental Engineering and Management Program, School of
Environment, Resources and Development, Asian Institute of Technology,
Phatumthani, Thailand. ajugsv@lsu.edu
SO Journal of Environmental Science and Health. Part A, Toxic/Hazardous
Substances & Environmental Engineering, (2003) Vol. 38, No. 12, pp.
2773-2784. 23 ref.
Publisher: Marcel Dekker, Inc. New York
ISSN: 1093-4529
CY United States
DT Journal
LA English
ED Entered STN: 20040206
Last Updated on STN: 20040206

L5 ANSWER 34 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2004:11900 CABA
DN 20033198553
TI Interactive effects of pH, arsenic and phosphorus on uptake of
As and P and growth of the arsenic hyperaccumulator
Pteris vittata L. under hydroponic conditions
AU Tu, S.; Ma, L. Q.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lqma@ufl.edu
SO Environmental and Experimental Botany, (2003) Vol. 50, No. 3, pp. 243-251.
35 ref.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0098-8472
DOI: 10.1016/S0098-8472(03)00040-6
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20040112
Last Updated on STN: 20040112

L5 ANSWER 35 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2003:192348 CABA
DN 20033155328
TI Effects of compost and phosphate amendments on **arsenic** mobility
in **soils** and **arsenic** uptake by the hyperaccumulator,
Pteris vittata L
AU Cao, X. D.; Ma, L. Q.; Shiralipour, A.
CS Department of Soil and Water Science, University of Florida, Gainesville,
FL 32611, USA. lqma@ufl.edu
SO Environmental Pollution, (2003) Vol. 126, No. 2, pp. 157-167. 39 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20031209
Last Updated on STN: 20031209

L5 ANSWER 36 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2003:172129 CABA
DN 20033136608
TI **Phytoremediation** of **arsenic** and lead in contaminated
soil using Chinese Brake ferns (**Pteris**
vittata) and Indian mustard (*Brassica juncea*)
AU Salido, A. L.; Hasty, K. L.; Lim, J. M.; Butcher, D. J.
CS Department of Chemistry and Physics, Western Carolina University,
Cullowhee, NC 28723, USA. asalido@alumni.vanderbilt.edu;
butcher@email.wcu.edu
SO International Journal of Phytoremediation, (2003) Vol. 5, No. 2, pp.
89-103. 18 ref.
Publisher: CRC Press Inc. Boca Raton
ISSN: 1522-6514
CY United States
DT Journal
LA English
ED Entered STN: 20031107
Last Updated on STN: 20031107

L5 ANSWER 37 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2003:149536 CABA
DN 20033123696
TI The role of phytochelatins in **arsenic** tolerance in the
hyperaccumulator **Pteris vittata**
Special Issue: Heavy metals and plants
AU Zhao, F. J.; Wang, J. R.; Barker, J. H. A.; Schat, H.; Bleeker, P. M.;
McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden,
Hertfordshire AL5 2JQ, UK. Fangjie.Zhao@bbsrc.ac.uk
SO New Phytologist, (2003) Vol. 159, No. 2, pp. 403-410. 34 ref.
Publisher: Blackwell Science. Oxford
ISSN: 0028-646X
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20030916
Last Updated on STN: 20030916

L5 ANSWER 38 OF 54 CABA COPYRIGHT 2005 CABI on STN
AN 2003:148242 CABA
DN 20033121660
TI Tolerance of heavy metals in vascular plants: **arsenic**
hyperaccumulation by Chinese Brake fern (**Pteris**
vittata L.)
AU Bondada, B. R.; Ma, Q. Y. L.; Chandra, S. [EDITOR]; Srivastava, M.
[EDITOR]
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. bbondada@hotmail.com; lqma@ufl.edu
SO Pteridology in the new millennium. NBRI Golden Jubilee Volume, (2003) pp.

397-420. many ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISBN: 1-4020-1128-8

CY Netherlands Antilles

DT Book; Book Article

LA English

ED Entered STN: 20030916

Last Updated on STN: 20030916

L5 ANSWER 39 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2003:140008 CABA

DN 20033104368

TI **Arsenic** species and leachability in the fronds of the hyperaccumulator Chinese brake (**Pteris** vittata L.)

AU Tu, C.; Ma, L. Q.; Zhang, W. H.; Cai, Y.; Harris, W. G.

CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lqma@ufl.edu

SO Environmental Pollution, (2003) Vol. 124, No. 2, pp. 223-230. 31 ref.

Publisher: Elsevier Science Ltd. Oxford

ISSN: 0269-7491

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20030916

Last Updated on STN: 20030916

L5 ANSWER 40 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2003:121634 CABA

DN 20033087055

TI Effects of arsenate and phosphate on their accumulation by an **arsenic**-hyperaccumulator **Pteris** vittata L

AU Tu, C.; Ma, L. Q.

CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. qma@ufl.edu

SO Plant and Soil, (2003) Vol. 249, No. 2, pp. 373-382. 31 ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISSN: 0032-079X

CY Netherlands Antilles

DT Journal

LA English

ED Entered STN: 20030812

Last Updated on STN: 20030812

L5 ANSWER 41 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2003:99666 CABA

DN 20033048580

TI **Arsenic** speciation and distribution in an **arsenic** hyperaccumulating plant

AU Zhang, W. H.; Cai, Y.; Tu, C.; Ma, L. Q.

CS Department of Chemistry and Southeast Environmental Research Center, Florida International University, Miami, FL 33199, USA.

SO Science of the Total Environment, (2002) Vol. 300, No. 1/3, pp. 167-177.

Publisher: Elsevier Science B.V. Amsterdam

ISSN: 0048-9697

URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-45TTR7P-5&_user=10&_handle=W-WA-A-A-WE-MsSAYVW-UUA-AUCBBVUBUY-CEYZDWUD-WE-U&_fmt=summary&_coverDate=12%2F02%2F2002&_rdoc=15&_orig=browse&_srch=%23toc%235836%232002%2399699998%23368867!&_cdi=5836&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=6ea609da288edbda0bfa71d0f8e622

CY Netherlands Antilles

DT Journal

LA English

ED Entered STN: 20030707

Last Updated on STN: 20030707

L5 ANSWER 42 OF 54 CABA COPYRIGHT 2005 CABI on STN

AN 2002:203748 CABA

DN 20023151752

TI Arsenic accumulation in the hyperaccumulator Chinese brake and its utilization potential for phytoremediation
AU Tu, C.; Ma, L. Q.; Bondada, B.
CS Soil and Water Science Dep., University of Florida, Gainesville, FL 32611-0290, USA. lgma@ufl.edu
SO Journal of Environmental Quality, (2002) Vol. 31, No. 5, pp. 1671-1675. 29 ref.
Publisher: American Society of Agronomy. Madison
ISSN: 0047-2425
CY United States
DT Journal
LA English
ED Entered STN: 20021206
Last Updated on STN: 20021206

L5 ANSWER 43 OF 54 CABA COPYRIGHT 2005 CABi on STN
AN 2002:191578 CABA
DN 20023143285
TI Arsenic hyperaccumulation by different fern species
AU Zhao, F. J.; Dunham, S. J.; McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden, Hertfordshire AL5 2JQ, UK. steve.mcgrath@bbsrc.ac.uk
SO New Phytologist, (2002) Vol. 156, No. 1, pp. 27-31. 17 ref.
Publisher: Blackwell Science. Oxford
ISSN: 0028-646X
DOI: 10.1046/j.1469-8137.2002.00493.x
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20021108
Last Updated on STN: 20021108

L5 ANSWER 44 OF 54 CABA COPYRIGHT 2005 CABi on STN
AN 2002:180133 CABA
DN 20023113856
TI Effects of arsenic concentrations and forms on arsenic uptake by the hyperaccumulator ladder brake
AU Tu, C.; Ma, L. Q.
CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lgma@ufl.edu
SO Journal of Environmental Quality, (2002) Vol. 31, No. 2, pp. 641-647. 32 ref.
Publisher: American Society of Agronomy. Madison
ISSN: 0047-2425
CY United States
DT Journal
LA English
ED Entered STN: 20021108
Last Updated on STN: 20021108

L5 ANSWER 45 OF 54 CABA COPYRIGHT 2005 CABi on STN
AN 2002:159254 CABA
DN 20023063375
TI The potential of Thai indigenous plant species for the phytoremediation of arsenic contaminated land
AU Visoottiviseth, P.; Francesconi, K.; Sridokchan, W.
CS Department of Biology, Faculty of Science, Mahidol University, Rama VI Road, Bangkok 10400, Thailand. sepvi@mahidol.ac.th
SO Environmental Pollution, (2002) Vol. 118, No. 3, pp. 453-461. 47 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20021004
Last Updated on STN: 20021004

L5 ANSWER 46 OF 54 CABA COPYRIGHT 2005 CABi on STN

AN 2002:20359 CABA
DN 20013018524
TI A fern that hyperaccumulates arsenic. A hardy,
versatile, fast-growing plant helps to remove arsenic from
contaminated soils
AU Ma, L. Q.; Komar, K. M.; Tu Cong; Zhang WeiHua; Cai Yong; Kennelley, E.
D.; Tu, C.; Zhang, W. H.; Cai, Y.
CS Soil and Water Science Department, University of Florida, Gainesville,
Florida 32611-0290, USA.
SO Nature (London), (2001) Vol. 409, No. 6820, pp. 579. 5 ref.
Publisher: Nature Publishing Group. London
ISSN: 0028-0836
DOI: 10.1038/35054664
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20020207
Last Updated on STN: 20040216

L5 ANSWER 47 OF 54 ENVIROENG COPYRIGHT 2005 CSA on STN
AN 2005007925 ENVIROENG
DN 06252108
TI Uptake and distribution of selenium in different fern species
AU Srivastava, M.; Ma, L.Q.; Cotruvo, J.A.
eMail: Lqma@ufl.edu
CS Soil and Water Science Dept., University of Florida, Gainesville, FL
32611-0290, USA
SO International Journal of Phytoremediation, vol. 7, no. 1, pp. 33-42,
2005, 20050000
ISSN: 1522-6574
DT Journal
LA English

L5 ANSWER 48 OF 54 Elsevier BIOBASE COPYRIGHT 2005 Elsevier Science B.V.
on STN
AN 2005115136 ESBIOBASE
TI Uptake and distribution of selenium in different fern species
AU Srivastava M.; Ma L.Q.; Cotruvo J.A.
CS L.Q. Ma, Soil and Water Science Dept., University of Florida,
Gainesville, FL 32611-0290, United States.
E-mail: Lqma@ufl.edu
SO International Journal of Phytoremediation, (2005), 7/1 (33-42), 34
reference(s)
CODEN: IJPHFG ISSN: 1522-6514
DT Journal; Article
CY United States
LA English
SL English

L5 ANSWER 49 OF 54 MEDLINE on STN
AN 2005297188 MEDLINE
DN PubMed ID: 15943242
TI Uptake and distribution of selenium in different fern species.
AU Srivastava Mrittunjai; Ma Lena Q; Cotruvo Joseph A
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA.
SO International journal of phytoremediation, (2005) 7 (1) 33-42.
Journal code: 101136878. ISSN: 1522-6514.
CY United States
DT (EVALUATION STUDIES)
LA Journal; Article; (JOURNAL ARTICLE)
FS English
EM Priority Journals
200506
ED Entered STN: 20050610
Last Updated on STN: 20050701
Entered Medline: 20050630

L5 ANSWER 50 OF 54 TOXCENTER COPYRIGHT 2005 ACS on STN
AN 2005:199678 TOXCENTER
CP Copyright (c) 2005 The Thomson Corporation
DN PREV200510069786
TI Uptake and distribution of selenium in different **fern** species
AU Srivastava, Mrittunjai; Ma, Lena Q. [Reprint Author]; Cotruvo, Joseph A.
CS Univ Florida, Dept Soil and Water Sci, Gainesville, FL 32611 USA
Lqma@ufl.edu
SO International Journal of Phytoremediation, (2005) Vol. 7, No. 1, pp.
33-42.
ISSN: 1522-6514.
DT Article
FS BIOSIS
OS BIOSIS 2005:279781
LA English
ED Entered STN: 20050726
Last Updated on STN: 20050803

=> d 15 51-54

L5 ANSWER 51 OF 54 TOXCENTER COPYRIGHT 2005 ACS on STN
AN 2005:178827 TOXCENTER
DN PubMed ID: 15943242
TI Uptake and distribution of selenium in different **fern** species
AU Srivastava Mrittunjai; Ma Lena Q; Cotruvo Joseph A
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA
SO International journal of phytoremediation, (2005) 7 (1) 33-42.
Journal Code: 101136878. ISSN: 1522-6514.
CY United States
DT (EVALUATION STUDIES)
Journal; Article; (JOURNAL ARTICLE)
FS MEDLINE
OS MEDLINE 2005297188
LA English
ED Entered STN: 20050705
Last Updated on STN: 20050705

L5 ANSWER 52 OF 54 TOXCENTER COPYRIGHT 2005 ACS on STN
AN 2005:104318 TOXCENTER
CP Copyright 2005 ACS
TI Uptake and distribution of selenium in different **fern** species
AU Srivastava, Mrittunjai; Ma, Lena Q.; Cotruvo, Joseph A.
CS Soil and Water Science Department, University of Florida, Gainesville, FL,
32611-0290, USA.
SO International Journal of Phytoremediation, (2005) Vol. 7, No. 1, pp.
33-42.
CODEN: IJPHFG. ISSN: 1522-6514.
CY UNITED STATES
DT Journal
FS CAPLUS
OS CAPLUS 2005:279782
LA English
ED Entered STN: 20050405
Last Updated on STN: 20050607

L5 ANSWER 53 OF 54 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 2001-03755 BIOTECHDS
TI Novel method for the removal of pollutants, e.g. **arsenic**, from
contaminated materials by growing **fern** plant on the material;
 bioremediation
AU Lena Q M; Ken M K; Kennelley E D
PA Univ. Florida
LO Gainesville, FL, USA.
PI WO 2000061822 19 Oct 2000
AI WO 2000-US9615 11 Apr 2000
PRAI US 1999-471566 23 Dec 1999; US 1999-129203 14 Apr 1999

DT Patent
LA English
OS WPI: 2001-015707 [02]

L5 ANSWER 54 OF 54 PCTFULL COPYRIGHT 2005 Univentio on STN
AN 2000061822 PCTFULL ED 20020515
TIEN COMPOSITIONS AND METHODS FOR REMOVING POLLUTANTS FROM CONTAMINATED
MATERIALS
TIFR COMPOSITIONS ET PROCEDE POUR RETIRER DES POLLUANTS DES MATERIAUX
CONTAMINES

IN LENA, Q., Ma;
KEN, M., Komar;
PA KENNELLEY, Elizabeth, D.
LA UNIVERSITY OF FLORIDA
DT English
PT Patent

PI WO 2000061822 A1 20001019

DS W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW GH GM
KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT
BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
CF CG CI CM GA GN GW ML MR NE SN TD TG

AI WO 2000-US9615 A 20000411

PRAI US 1999-60/129,203 19990414

US 1999-09/471,566 19991223

ICM C21B009-00

ICS C22B009-00; A01H001-00; A01H009-00; A01G031-00; C12N015-82

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(FILE 'HOME' ENTERED AT 13:54:42 ON 06 SEP 2005)

FILE 'STNGUIDE' ENTERED AT 13:55:01 ON 06 SEP 2005

FILE 'HOME' ENTERED AT 13:55:13 ON 06 SEP 2005

FILE 'ALUMINIUM, CAPLUS, CIN, COMPENDEX, COPPERLIT, CORROSION, IFIPAT,
INSPEC, INSPHYS, INVESTTEXT, JICST-EPLUS, MATBUS, MDF, METADEX, PASCAL,
PROMT, SCISEARCH, TEMA, USPATFULL, USPAT2, WELDASEARCH, ABI-INFORM,
AGRICOLA, ANTE, AQUALINE, AQUASCI, AQUIRE, ...' ENTERED AT 13:58:36 ON 06
SEP 2005

L1 572 S FERN AND (PHYTOREMEDIATION OR BIOREMEDIALION)

L2 493 S L1 AND (METAL? OR ARSENIC?)

L3 333 S L2 AND PTERIS?

L4 275 S L3 AND (WATER OR SOIL)

L5 54 S L4 AND (ADIANTA? OR ASPLENIA? OR DRYOPTER? OR OLEAND?)

L6 0 S L5 AND PY<1999

L7 1 S L5 NOT PY>1999

=> dup remov 15

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FOREGE, HSDB, UFORDAT, ADISINSIGHT, ADISNEWS, DGENE, DRUGMONOG2, GENBANK,
IMSPRODUCT, IMSRESEARCH, KOSMET, NUTRACEUT, PCTGEN, PHAR, PHARMAML, PROUSDDR,
PS, RDISCLOSURE, SYNTHLINE, CAOLD, DPCI, IMSPATENTS, LITALERT, PATDPASPC'.

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PROCESSING COMPLETED FOR L5

L8 39 DUP REMOV L5 (15 DUPLICATES REMOVED)

=> d 18 1-39

L8 ANSWER 1 OF 39 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 1

AN 10843505 IFIPAT;IFIUDB;IFICDB

TI CONTAMINANT REMOVAL BY ADDITIONAL FERNS

IN Luongo Thomas; Ma Lena Q; Singh Nandita (IN); Srivastava Mrittunjai

PA Unassigned Or Assigned To Individual (68000)

PI US 2005082221 A1 20050421
AI US 2004-961932 20041008
RLI US 1999-471566 19991223 CONTINUATION-IN-PART 6280500
US 2001-948969 20010907 CONTINUATION-IN-PART ABANDONED
US 2004-756237 20040112 CONTINUATION-IN-PART PENDING
US 2004-825993 20040416 CONTINUATION-IN-PART PENDING
US 2000-546941 20000411 DIVISION 6302942
PRAI US 1999-129203P 19990414 (Provisional)
FI US 2005082221 20050421
US 6280500
US 6302942
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 57

L8 ANSWER 2 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2005:97439 CABA
DN 20053079630
TI Antioxidant responses of hyper-accumulator and sensitive fern species to arsenic
AU Srivastava, M.; Ma, L. Q.; Nandita Singh; Shraddha Singh; Singh, N.; Singh, S.
CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lgma@ifas.ufl.edu
SO Journal of Experimental Botany, (2005) Vol. 56, No. 415, pp. 1335-1342. 42 ref.
Publisher: Oxford University Press. Oxford
ISSN: 0022-0957
URL: <http://www.jxb.oupjournals.org/>
DOI: 10.1093/jxb/eril34

CY United Kingdom
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L8 ANSWER 3 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2005:108167 CABA
DN 20053095928
TI Influence of the arbuscular mycorrhizal fungus Glomus mosseae on uptake of arsenate by the As hyperaccumulator fern *Pteris vittata* L
AU Liu, Y.; Zhu, Y. G.; Chen, B. D.; Christie, P.; Li, X. L.
CS Department of Plant Nutrition, China Agricultural University, 2 Yuanmingyuan Road, Beijing, 100094, China. lixl@cau.edu.cn
SO Mycorrhiza, (2005) Vol. 15, No. 3, pp. 187-192. 29 ref.
Publisher: Springer-Verlag GmbH. Heidelberg
ISSN: 0940-6360
URL: <http://springerlink.metapress.com/link.asp?id=100439>
DOI: 10.1007/s00572-004-0320-7

CY Germany, Federal Republic of
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L8 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
AN 2005:279782 CAPLUS
TI Uptake and distribution of selenium in different fern species
AU Srivastava, Mrittunjai; Ma, Lena Q.; Cotruvo, Joseph A.
CS Soil and Water Science Department, University of Florida, Gainesville, FL, 32611-0290, USA
SO International Journal of Phytoremediation (2005), 7(1), 33-42
CODEN: IJPHFG; ISSN: 1522-6514
PB Taylor & Francis, Inc.
DT Journal
LA English

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 39 CABAB COPYRIGHT 2005 CABI on STN
AN 2005:100639 CABAB
DN 20053085059
TI Phytoextraction: simulating uptake and translocation of arsenic
in a soil-plant system
AU Ouyang, Y.
CS Department of Water Resources, St. Johns River Water Management District,
P.O. Box 1429, Palatka, FL 32178-1429, USA. youyang@sjrwmd.com
SO International Journal of Phytoremediation, (2005) Vol. 7, No. 1, pp. 3-17.
27 ref.
Publisher: Taylor & Francis. Boca Raton
ISSN: 1522-6514
URL: <http://journalsonline.tandf.co.uk/link.asp?id=110771>
CY United States
DT Journal
LA English
ED Entered STN: 20050707
Last Updated on STN: 20050707

L8 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
AN 2004:825006 CAPLUS
DN 141:300291
TI Contaminant removal by ferns via foliar-application and
excised/ground fronds
IN Ma, Lena Q.; Tu, Mike Shuxin; Fayiga, Abioye O.
PA USA
SO U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U.S. Ser. No. 756,237.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 2004197812 | A1 | 20041007 | US 2004-825993 | 20040416 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |
| | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
| | US 2005082221 | A1 | 20050421 | US 2004-961932 | 20041008 |
| PRAI | US 1999-129203P | P | 19990414 | | |
| | US 1999-471566 | A2 | 19991223 | | |
| | US 2000-546941 | A3 | 20000411 | | |
| | US 2001-948969 | B2 | 20010907 | | |
| | US 2004-756237 | A2 | 20040112 | | |
| | US 2004-825993 | A2 | 20040416 | | |

L8 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
AN 2004:609550 CAPLUS
DN 141:128040
TI Compositions and methods for removing pollutants from contaminated
water using a fern plant
IN Ma, Lena Q.; Tu, Cong
PA USA
SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 948,969,
abandoned.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |

PRAI US 2004197812 A1 20041007 US 2004-825993 20040416
US 2005082221 A1 20050421 US 2004-961932 20041008
US 1999-129203P P 19990414
US 1999-471566 A2 19991223
US 2000-546941 A3 20000411
US 2001-948969 B2 20010907
US 2004-756237 A2 20040112
US 2004-825993 A2 20040416

L8 ANSWER 8 OF 39 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
on STN

AN 2004-0515092 PASCAL

CP Copyright .COPYRGT. 2004 INIST-CNRS. All rights reserved.

TIEN Phytofiltration of arsenic from drinking water using
arsenic-hyperaccumulating ferns

AU HUANG Jianwei W.; POYNTON Charissa Y.; ELLESS Mark P.
CS Edenspace Systems Corporation, Dulles, Virginia 20151, United States;
U.S. Plant, Soil, and Nutrition Laboratory, USDA-ARS, Cornell
University, Ithaca, New York 14850, United States

SO Environmental science & technology, (2004), 38(12), 3412-3417, 22 refs.
ISSN: 0013-936X CODEN: ESTHAG

DT Journal

BL Analytic

CY United States

LA English

AV INIST-13615, 354000112049560290

L8 ANSWER 9 OF 39 CABA COPYRIGHT 2005 CABI on STN

AN 2005:2063 CABA

DN 20043183136

TI Phytoremoval of arsenic from soil

AU Campos, V.; Pires, M. A. F.

CS Energy and Nuclear Research Institute-IPEN, Chemistry and Environmental
Center, Sao Paulo University, Rua Kyoto 98, Jardim Japao, Sao Paulo
02131-010, Brazil. vcampos@usp.br

SO Communications in Soil Science and Plant Analysis, (2004) Vol. 35, No.
15/16, pp. 2137-2146. 9 ref.

Publisher: Marcel Dekker, Inc. Monticello

ISSN: 0010-3624

CY United States

DT Journal

LA English

ED Entered STN: 20050107

Last Updated on STN: 20050107

L8 ANSWER 10 OF 39 CABA COPYRIGHT 2005 CABI on STN

AN 2005:66680 CABA

DN 20053047344

TI Effects of controlled-release fertilizer application rates on frond color
and biomass production of an arsenic hyperaccumulating
fern

AU Stamps, R. H.; Rock, D. K.; Cantliffe, D. J. [EDITOR]; Stoffella, P. J.
[EDITOR]; Shaw, N. L. [EDITOR]

CS Mid-Florida Research and Education Center, Department of Environmental
Horticulture, Institute of Food and Agricultural Sciences, University of
Florida, 2725 Binion Road, Apopka, FL 32703-8504, USA.

SO Acta Horticulturae, (2004) No. 659(2), pp. 693-696. 12 ref.

Publisher: International Society for Horticultural Science (ISHS). Leuven
Price: Journal article; Conference paper ; 159 EURO (2 volumes).

Meeting Info.: Proceedings of the VIIth International Symposium on
Protected Cultivation in Mild Winter Climates: Production, Pest Management
and Global Competition, Kissimmee, Florida, USA, 23-27 March, 2004.

ISSN: 0567-7572; ISBN: 90-6605-259-7

URL: <http://www.actahort.org>

CY Belgium

DT Journal

LA English

ED Entered STN: 20050506

Last Updated on STN: 20050506

L8 ANSWER 11 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:172457 CABA
DN 20043154587
TI Investigation on plants in heavy-metal contaminated area
AU Lai FaYing; Ye QingHua; Tu ShuPing; Guo ChengZhi; Luo YunKuo; Lai, F. Y.;
Ye, Q. H.; Tu, S. P.; Guo, C. Z.; Luo, Y. K.
CS College of Land Resources and Environment, JAU, Nanchang 330045, China.
SO Acta Agriculturae Universitatis Jiangxiensis, (2004) Vol. 26, No. 3, pp.
455-457. 5 ref.
Publisher: Jiangxi Agricultural University. Nanchang
ISSN: 1000-2286
CY China
DT Journal
LA Chinese
SL English
ED Entered STN: 20041108
Last Updated on STN: 20041108

L8 ANSWER 12 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:71945 CABA
DN 20043043725
TI Antioxidative responses to arsenic in the arsenic
-hyperaccumulator Chinese brake fern (*Pteris vittata*
L.)
AU Cao, X. D.; Ma, L. Q.; Tu, C.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611, USA. lgma@ufl.edu
SO Environmental Pollution, (2004) Vol. 128, No. 3, pp. 317-325. 36 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
DOI: 10.1016/j.envpol.2003.09.018
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20040511
Last Updated on STN: 20040511

L8 ANSWER 13 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:176679 CABA
DN 20043162528
TI Effects of heavy metals on growth and arsenic
accumulation in the arsenic hyperaccumulator *Pteris*
vittata L
AU Fayiga, A. O.; Ma, L. Q.; Cao, X. D.; Rathinasabapathi, B.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lgma@ufl.edu
SO Environmental Pollution, (2004) Vol. 132, No. 2, pp. 289-296. 38 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
DOI: 10.1016/j.envpol.2004.04.020
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20041108
Last Updated on STN: 20041108

L8 ANSWER 14 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:114838 CABA
DN 20043088752
TI Arsenic speciation in Chinese brake fern by ion-pair
high-performance liquid chromatography-inductively coupled plasma mass
spectroscopy
AU Chen, R. X.; Smith, B. W.; Winefordner, J. D.; Tu, M. S.; Kertulis, G.;
Ma, L. Q.
CS Department of Chemistry, University of Florida, P.O. Box 117200,
Gainesville, FL 32611-7200, USA. jdwin@chem.ufl.edu

SO Analytica Chimica Acta, (2004) Vol. 504, No. 2, pp. 199-207.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0003-2670
URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TF4-4B668DK-6&_user=10&_handle=B-WA-A-A-AY-MsSAYVW-UUA-AUYEDDWZAD-AUYDBCVA-D-VZCUZZAZE-AY-U&_fmt=summary&_coverDate=02%2F23%2F2004&_rdoc=1&_orig=browse&_srch=%23toc%235216%232004%23994959997%23476964!&_cdi=5216&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=f98b55ea45637e72803e29bcf8ac43bd
DOI: 10.1016/j.aca.2003.10.042

CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20040806
Last Updated on STN: 20040806

L8 ANSWER 15 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:59972 CABA
DN 20043032081
TI Effects of arsenic species and phosphorus on arsenic absorption, arsenate reduction and thiol formation in excised parts of *Pteris vittata* L
AU Tu, S.; Ma, L. Q.; MacDonald, G. E.; Bondada, B.
CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lgma@ufl.edu
SO Environmental and Experimental Botany, (2004) Vol. 51, No. 2, pp. 121-131. 35 ref.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0098-8472
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20040402
Last Updated on STN: 20040402

L8 ANSWER 16 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:159830 CABA
DN 20043143039
TI Arsenic hyperaccumulation by *Pteris vittata* from arsenic contaminated soils and the effect of liming and phosphate fertilisation
AU Caille, N.; Swanwick, S.; Zhao, F. J.; McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden, Hertfordshire AL5 2JQ, UK. steve.mcgrath@bbsrc.ac.uk
SO Environmental Pollution, (2004) Vol. 132, No. 1, pp. 113-120. 36 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
DOI: 10.1016/j.envpol.2004.03.018
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20041022
Last Updated on STN: 20041022

L8 ANSWER 17 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:161203 CABA
DN 20043144739
TI Root distributions and elemental accumulations of Chinese brake (*Pteris vittata* L.) from As-contaminated soils
AU Liao, X. Y.; Chen, T. B.; Lei, M.; Huang, Z. C.; Xiao, X. Y.; An, Z. Z.; Zhu, Y. G. [EDITOR]; Smith, F. A. [EDITOR]
CS Laboratory of Environmental Remediation, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China. chentb@igsnrr.ac.cn
SO Plant and Soil, (2004) Vol. 261, No. 1/2, pp. 109-116. 39 ref.
Publisher: Kluwer Academic Publishers. Dordrecht
Price: Journal article; Conference paper
Meeting Info.: Plant-soil interactions for better soil quality and food

security. International Workshop on Plant-Soil Interactions, Beijing, China, 27-30 October 2002.

ISSN: 0032-079X

DOI: 10.1023/B:PLSO.0000035578.24164.fa

CY Netherlands Antilles

DT Journal

LA English

ED Entered STN: 20041022

Last Updated on STN: 20041022

L8 ANSWER 18 OF 39 CABA COPYRIGHT 2005 CABI on STN

AN 2004:73956 CABA

DN 20043046338

TI Low molecular weight thiols in arsenic hyperaccumulator *Pteris vittata* upon exposure to arsenic and other trace elements

AU Cai, Y.; Su, J. H.; Ma, L. Q.

CS Department of Chemistry and Biochemistry, Southeast Environmental Research Center, Florida International University, Miami, FL 33199, USA.

cai@fiu.edu

SO Environmental Pollution, (2004) Vol. 129, No. 1, pp. 69-78. 45 ref.

Publisher: Elsevier Science Ltd. Oxford

ISSN: 0269-7491

DOI: 10.1016/j.envpol.2003.09.020

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20040511

Last Updated on STN: 20040511

L8 ANSWER 19 OF 39 CABA COPYRIGHT 2005 CABI on STN

AN 2004:114843 CABA

DN 20043088757

TI Phytoremediation of arsenic-contaminated groundwater by the arsenic hyperaccumulating fern *Pteris vittata* L

AU Tu, S.; Ma, L. Q.; Fayiga, A. O.; Zillioux, E. J.

CS Soil and Water Science Department, University of Florida, Gainesville, FL 32611-0290, USA. lqma@ufl.edu

SO International Journal of Phytoremediation, (2004) Vol. 6, No. 1, pp. 35-47. 26 ref.

Publisher: CRC Press Inc. Boca Raton

ISSN: 1522-6514

DOI: 10.1080/16226510490439972

CY United States

DT Journal

LA English

ED Entered STN: 20040806

Last Updated on STN: 20040806

L8 ANSWER 20 OF 39 CABA COPYRIGHT 2005 CABI on STN

AN 2004:51598 CABA

DN 20043013400

TI Arsenic biomonitoring using a hyperaccumulator fern (*Pteris vittata*)

AU Minganti, V.; Cornara, L.; Piana, M.; Corallo, A.; Mariotti, M. G.

CS Dipartimento di Chimica e Tecnologie Farmaceutiche ed Alimentari, Universita di Genova, Via Brigata Salerno (ponte), 16147 Genova, Italy. minganti@dictfa.unige.it

SO Journal of Environmental Monitoring, (2004) Vol. 6, No. 1, pp. 23-25. 16 ref.

Publisher: Royal Society of Chemistry. Cambridge

ISSN: 1464-0325

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20040402

Last Updated on STN: 20040402

L8 ANSWER 21 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2003:148242 CABA
DN 20033121660
TI Tolerance of heavy **metals** in vascular plants: **arsenic**
hyperaccumulation by Chinese Brake fern (*Pteris*
vittata L.)
AU Bondada, B. R.; Ma, Q. Y. L.; Chandra, S. [EDITOR]; Srivastava, M.
[EDITOR]
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. bbondada@hotmail.com; lgma@ufl.edu
SO Pteridology in the new millennium. NBRI Golden Jubilee Volume, (2003) pp.
397-420. many ref.
Publisher: Kluwer Academic Publishers. Dordrecht
ISBN: 1-4020-1128-8
CY Netherlands Antilles
DT Book; Book Article
LA English
ED Entered STN: 20030916
Last Updated on STN: 20030916

L8 ANSWER 22 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2004:27848 CABA
DN 20033215465
TI **Arsenic** uptake by native **fern** species in Thailand:
effect of chelating agents on hyperaccumulation of **arsenic** by
Pityrogramma calomelanos
AU Wongkongkatep, J.; Fukushi, K.; Parkpian, P.; DeLaune, R. D.; Jugsujinda,
A.; Jirarut Wongkongkatep; Preeda Parkpian
CS Urban Environmental Engineering and Management Program, School of
Environment, Resources and Development, Asian Institute of Technology,
Phatumthani, Thailand. ajugsv@lsu.edu
SO Journal of Environmental Science and Health. Part A, Toxic/Hazardous
Substances & Environmental Engineering, (2003) Vol. 38, No. 12, pp.
2773-2784. 23 ref.
Publisher: Marcel Dekker, Inc. New York
ISSN: 1093-4529
CY United States
DT Journal
LA English
ED Entered STN: 20040206
Last Updated on STN: 20040206

L8 ANSWER 23 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2003:149536 CABA
DN 20033123696
TI The role of phytochelatins in **arsenic** tolerance in the
hyperaccumulator *Pteris vittata*
Special Issue: Heavy **metals** and plants
AU Zhao, F. J.; Wang, J. R.; Barker, J. H. A.; Schat, H.; Bleeker, P. M.;
McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden,
Hertfordshire AL5 2JQ, UK. Fangjie.Zhao@bbsrc.ac.uk
SO New Phytologist, (2003) Vol. 159, No. 2, pp. 403-410. 34 ref.
Publisher: Blackwell Science. Oxford
ISSN: 0028-646X
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20030916
Last Updated on STN: 20030916

L8 ANSWER 24 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2003:121634 CABA
DN 20033087055
TI Effects of arsenate and phosphate on their accumulation by an
arsenic-hyperaccumulator *Pteris vittata* L
AU Tu, C.; Ma, L. Q.

CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. qma@ufl.edu
SO Plant and Soil, (2003) Vol. 249, No. 2, pp. 373-382. 31 ref.
Publisher: Kluwer Academic Publishers. Dordrecht
ISSN: 0032-079X
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20030812
Last Updated on STN: 20030812

L8 ANSWER 25 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2004:11900 CABA
DN 20033198553
TI Interactive effects of pH, arsenic and phosphorus on uptake of
As and P and growth of the arsenic hyperaccumulator
Pteris vittata L. under hydroponic conditions
AU Tu, S.; Ma, L. Q.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lqma@ufl.edu
SO Environmental and Experimental Botany, (2003) Vol. 50, No. 3, pp. 243-251.
35 ref.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0098-8472
DOI: 10.1016/S0098-8472(03)00040-6
CY Netherlands Antilles
DT Journal
LA English
ED Entered STN: 20040112
Last Updated on STN: 20040112

L8 ANSWER 26 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2003:140008 CABA
DN 20033104368
TI Arsenic species and leachability in the fronds of the
hyperaccumulator Chinese brake (*Pteris vittata* L.)
AU Tu, C.; Ma, L. Q.; Zhang, W. H.; Cai, Y.; Harris, W. G.
CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lqma@ufl.edu
SO Environmental Pollution, (2003) Vol. 124, No. 2, pp. 223-230. 31 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20030916
Last Updated on STN: 20030916

L8 ANSWER 27 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2003:192348 CABA
DN 20033155328
TI Effects of compost and phosphate amendments on arsenic mobility
in soils and arsenic uptake by the hyperaccumulator,
Pteris vittata L.
AU Cao, X. D.; Ma, L. Q.; Shiraliipour, A.
CS Department of Soil and Water Science, University of Florida, Gainesville,
FL 32611, USA. lqma@ufl.edu
SO Environmental Pollution, (2003) Vol. 126, No. 2, pp. 157-167. 39 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20031209
Last Updated on STN: 20031209

L8 ANSWER 28 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2003:172129 CABA

DN 20033136608
TI **Phytoremediation of arsenic and lead in contaminated soil using Chinese Brake ferns (*Pteris vittata*) and Indian mustard (*Brassica juncea*)**
AU Salido, A. L.; Hasty, K. L.; Lim, J. M.; Butcher, D. J.
CS Department of Chemistry and Physics, Western Carolina University, Cullowhee, NC 28723, USA. asalido@alumni.vanderbilt.edu; butcher@email.wcu.edu
SO International Journal of Phytoremediation, (2003) Vol. 5, No. 2, pp. 89-103. 18 ref.
Publisher: CRC Press Inc. Boca Raton
ISSN: 1522-6514
CY United States
DT Journal
LA English
ED Entered STN: 20031107
Last Updated on STN: 20031107

L8 ANSWER 29 OF 39 USPATFULL on STN
AN 2002:339270 USPATFULL
TI Methods of creating dwarf phenotypes in plants
IN Pogue, Gregory P., Vacaville, CA, UNITED STATES
Della-Cioppa, Guy R., Vacaville, CA, UNITED STATES
Wolfe, Gershon M., Davis, CA, UNITED STATES
Zheng, Wenjin, Davis, CA, UNITED STATES
PI US 2002194646 A1 20021219
AI US 2001-910664 A1 20010720 (9)
PRAI US 2000-219943P 20000720 (60)
DT Utility
FS APPLICATION
LN.CNT 8200
INCL INCLM: 800/290.000
INCLS: 800/320.000; 800/317.300; 800/319.000
NCL NCLM: 800/290.000
NCLS: 800/317.300; 800/319.000; 800/320.000
IC [7]
ICM: A01H005-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 30 OF 39 USPATFULL on STN
AN 2002:104075 USPATFULL
TI Compositions and methods for removing pollutants from contaminated materials
IN Ma, Lena Q., Gainesville, FL, UNITED STATES
Komar, Ken M., Gainesville, FL, UNITED STATES
Kennelley, Elizabeth D., Archer, FL, UNITED STATES
PA University of Florida (U.S. corporation)
PI US 2002053259 A1 20020509
AI US 2001-948969 A1 20010907 (9)
RLI Division of Ser. No. US 2000-546941, filed on 11 Apr 2000, UNKNOWN
DT Utility
FS APPLICATION
LN.CNT 1139
INCL INCLM: 075/712.000
INCLS: 800/295.000
NCL NCLM: 075/712.000
NCLS: 800/295.000
IC [7]
ICM: E21B043-28
ICS: A01H009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 31 OF 39 CABO COPYRIGHT 2005 CABO on STN
AN 2002:203748 CABO
DN 20023151752
TI **Arsenic accumulation in the hyperaccumulator Chinese brake and its utilization potential for phytoremediation**
AU Tu, C.; Ma, L. Q.; Bondada, B.

CS Soil and Water Science Dep., University of Florida, Gainesville, FL
32611-0290, USA. lqma@ufl.edu

SO Journal of Environmental Quality, (2002) Vol. 31, No. 5, pp. 1671-1675. 29
ref.
Publisher: American Society of Agronomy. Madison
ISSN: 0047-2425

CY United States

DT Journal

LA English

ED Entered STN: 20021206
Last Updated on STN: 20021206

L8 ANSWER 32 OF 39 CABA COPYRIGHT 2005 CABi on STN
AN 2002:180133 CABA
DN 20023113856

TI Effects of arsenic concentrations and forms on arsenic
uptake by the hyperaccumulator ladder brake

AU Tu, C.; Ma, L. Q.

CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lqma@ufl.edu

SO Journal of Environmental Quality, (2002) Vol. 31, No. 2, pp. 641-647. 32
ref.
Publisher: American Society of Agronomy. Madison
ISSN: 0047-2425

CY United States

DT Journal

LA English

ED Entered STN: 20021108
Last Updated on STN: 20021108

L8 ANSWER 33 OF 39 CABA COPYRIGHT 2005 CABi on STN
AN 2002:159254 CABA
DN 20023063375

TI The potential of Thai indigenous plant species for the
phytoremediation of arsenic contaminated land

AU Visoottiviseth, P.; Francesconi, K.; Sridokchan, W.

CS Department of Biology, Faculty of Science, Mahidol University, Rama VI
Road, Bangkok 10400, Thailand. sevpi@mahidol.ac.th

SO Environmental Pollution, (2002) Vol. 118, No. 3, pp. 453-461. 47 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20021004
Last Updated on STN: 20021004

L8 ANSWER 34 OF 39 CABA COPYRIGHT 2005 CABi on STN
AN 2003:99666 CABA
DN 20033048580

TI Arsenic speciation and distribution in an arsenic
hyperaccumulating plant

AU Zhang, W. H.; Cai, Y.; Tu, C.; Ma, L. Q.

CS Department of Chemistry and Southeast Environmental Research Center,
Florida International University, Miami, FL 33199, USA.

SO Science of the Total Environment, (2002) Vol. 300, No. 1/3, pp. 167-177.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0048-9697
URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-45TTR7P-5&_user=10&_handle=W-WA-A-A-WE-MsSAYVW-UUA-AUCBBVUBUY-CEYZDWUD-WE-U&_fmt=summary&_coverDate=12%2F02%2F2002&_rdoc=15&_orig=browse&_srch=%23toc%235836%232002%23996999998%23368867!&_cdi=5836&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=6ea609da288edbace0bfa71d0f8e622

CY Netherlands Antilles

DT Journal

LA English

ED Entered STN: 20030707
Last Updated on STN: 20030707

L8 ANSWER 35 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2002:191578 CABA
DN 20023143285
TI **Arsenic** hyperaccumulation by different **fern** species
AU Zhao, F. J.; Dunham, S. J.; McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden,
Hertfordshire AL5 2JQ, UK. steve.mcgrath@bbsrc.ac.uk
SO New Phytologist, (2002) Vol. 156, No. 1, pp. 27-31. 17 ref.
Publisher: Blackwell Science. Oxford
ISSN: 0028-646X
DOI: 10.1046/j.1469-8137.2002.00493.x
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20021108
Last Updated on STN: 20021108

L8 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
AN 2001:755667 CAPLUS
DN 135:288208
TI **Soil phytoremediation using ferns.**
IN Ma, Lena Q.; Komar, Ken M.; Kennelley, Elizabeth D.
PA University of Florida, Gainesville, FL, USA
SO U.S., 14 pp., Cont.-in-part of U.S. 6,280,500.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |
| | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
| | US 2004197812 | A1 | 20041007 | US 2004-825993 | 20040416 |
| | US 2005082221 | A1 | 20050421 | US 2004-961932 | 20041008 |
| PRAI | US 1999-129203P | P | 19990414 | | |
| | US 1999-471566 | A2 | 19991223 | | |
| | US 2000-546941 | A3 | 20000411 | | |
| | US 2001-948969 | B2 | 20010907 | | |
| | US 2004-756237 | A2 | 20040112 | | |
| | US 2004-825993 | A2 | 20040416 | | |

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 37 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2002:20359 CABA
DN 20013018524
TI A **fern** that hyperaccumulates **arsenic**. A hardy,
versatile, fast-growing plant helps to remove **arsenic** from
contaminated **soils**
AU Ma, L. Q.; Komar, K. M.; Tu Cong; Zhang WeiHua; Cai Yong; Kennelley, E.
D.; Tu, C.; Zhang, W. H.; Cai, Y.
CS Soil and Water Science Department, University of Florida, Gainesville,
Florida 32611-0290, USA.
SO Nature (London), (2001) Vol. 409, No. 6820, pp. 579. 5 ref.
Publisher: Nature Publishing Group. London
ISSN: 0028-0836
DOI: 10.1038/35054664
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20020207
Last Updated on STN: 20040216

L8 ANSWER 38 OF 39 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 6

AN 2001-03755 BIOTECHDS
TI Novel method for the removal of pollutants, e.g. arsenic, from
contaminated materials by growing fern plant on the material;
 bioremediation
AU Lena Q M; Ken M K; Kennelley E D
PA Univ. Florida
LO Gainesville, FL, USA.
PI WO 2000061822 19 Oct 2000
AI WO 2000-US9615 11 Apr 2000
PRAI US 1999-471566 23 Dec 1999; US 1999-129203 14 Apr 1999
DT Patent
LA English
OS WPI: 2001-015707 [02]

L8 ANSWER 39 OF 39 ENVIROENG COPYRIGHT 2005 CSA on STN
AN 2005007925 ENVIROENG
DN 06252108
TI Uptake and distribution of selenium in different fern species
AU Srivastava, M.; Ma, L.Q.; Cotruvo, J.A.
eMail: Lqma@ufl.edu
CS Soil and Water Science Dept., University of Florida, Gainesville, FL
32611-0290, USA
SO International Journal of Phytoremediation, vol. 7, no. 1, pp. 33-42,
2005, 20050000
ISSN: 1522-6574
DT Journal
LA English

DN 20033136608
TI Phytoremediation of arsenic and lead in contaminated
soil using Chinese Brake ferns (*Pteris*
vittata) and Indian mustard (*Brassica juncea*)
AU Salido, A. L.; Hasty, K. L.; Lim, J. M.; Butcher, D. J.
CS Department of Chemistry and Physics, Western Carolina University,
Cullowhee, NC 28723, USA. asalido@alumni.vanderbilt.edu;
butcher@email.wcu.edu
SO International Journal of Phytoremediation, (2003) Vol. 5, No. 2, pp.
89-103. 18 ref.
Publisher: CRC Press Inc. Boca Raton
ISSN: 1522-6514
CY United States
DT Journal
LA English
ED Entered STN: 20031107
Last Updated on STN: 20031107

L8 ANSWER 29 OF 39 USPATFULL on STN
AN 2002:339270 USPATFULL
TI Methods of creating dwarf phenotypes in plants
IN Pogue, Gregory P., Vacaville, CA, UNITED STATES
Della-Cioppa, Guy R., Vacaville, CA, UNITED STATES
Wolfe, Gershon M., Davis, CA, UNITED STATES
Zheng, Wenjin, Davis, CA, UNITED STATES
PI US 2002194646 A1 20021219
AI US 2001-910664 A1 20010720 (9)
PRAI US 2000-219943P 20000720 (60)
DT Utility
FS APPLICATION
LN.CNT 8200
INCL INCLM: 800/290.000
INCLS: 800/320.000; 800/317.300; 800/319.000
NCL NCLM: 800/290.000
NCLS: 800/317.300; 800/319.000; 800/320.000
IC [7]
ICM: A01H005-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 30 OF 39 USPATFULL on STN
AN 2002:104075 USPATFULL
TI Compositions and methods for removing pollutants from contaminated
materials
IN Ma, Lena Q., Gainesville, FL, UNITED STATES
Komar, Ken M., Gainesville, FL, UNITED STATES
Kennelley, Elizabeth D., Archer, FL, UNITED STATES
PA University of Florida (U.S. corporation)
PI US 2002053259 A1 20020509
AI US 2001-948969 A1 20010907 (9)
RLI Division of Ser. No. US 2000-546941, filed on 11 Apr 2000, UNKNOWN
DT Utility
FS APPLICATION
LN.CNT 1139
INCL INCLM: 075/712.000
INCLS: 800/295.000
NCL NCLM: 075/712.000
NCLS: 800/295.000
IC [7]
ICM: E21B043-28
ICS: A01H009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 31 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2002:203748 CABA
DN 20023151752
TI Arsenic accumulation in the hyperaccumulator Chinese brake and
its utilization potential for phytoremediation
AU Tu, C.; Ma, L. Q.; Bondada, B.

CS Soil and Water Science Dep., University of Florida, Gainesville, FL
32611-0290, USA. lgma@ufl.edu

SO Journal of Environmental Quality, (2002) Vol. 31, No. 5, pp. 1671-1675. 29
ref.
Publisher: American Society of Agronomy. Madison
ISSN: 0047-2425

CY United States

DT Journal

LA English

ED Entered STN: 20021206
Last Updated on STN: 20021206

L8 ANSWER 32 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2002:180133 CABA
DN 20023113856

TI Effects of arsenic concentrations and forms on arsenic
uptake by the hyperaccumulator ladder brake

AU Tu, C.; Ma, L. Q.

CS Soil and Water Science Department, University of Florida, Gainesville, FL
32611-0290, USA. lgma@ufl.edu

SO Journal of Environmental Quality, (2002) Vol. 31, No. 2, pp. 641-647. 32
ref.
Publisher: American Society of Agronomy. Madison
ISSN: 0047-2425

CY United States

DT Journal

LA English

ED Entered STN: 20021108
Last Updated on STN: 20021108

L8 ANSWER 33 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2002:159254 CABA
DN 20023063375

TI The potential of Thai indigenous plant species for the
phytoremediation of arsenic contaminated land

AU Visoottiviseth, P.; Francesconi, K.; Sridokchan, W.

CS Department of Biology, Faculty of Science, Mahidol University, Rama VI
Road, Bangkok 10400, Thailand. sevvi@mahidol.ac.th

SO Environmental Pollution, (2002) Vol. 118, No. 3, pp. 453-461. 47 ref.
Publisher: Elsevier Science Ltd. Oxford
ISSN: 0269-7491

CY United Kingdom

DT Journal

LA English

ED Entered STN: 20021004
Last Updated on STN: 20021004

L8 ANSWER 34 OF 39 CABA COPYRIGHT 2005 CAB on STN
AN 2003:99666 CABA
DN 20033048580

TI Arsenic speciation and distribution in an arsenic
hyperaccumulating plant

AU Zhang, W. H.; Cai, Y.; Tu, C.; Ma, L. Q.

CS Department of Chemistry and Southeast Environmental Research Center,
Florida International University, Miami, FL 33199, USA.

SO Science of the Total Environment, (2002) Vol. 300, No. 1/3, pp. 167-177.
Publisher: Elsevier Science B.V. Amsterdam
ISSN: 0048-9697
URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-45TTR7P-5&_user=10&_handle=W-WA-A-A-WE-MsSAYVW-UUA-AUCBBVUBUY-CEYZDWUD-WE-U&_fmt=summary&_coverDate=12%2F02%2F2002&_rdoc=15&_orig=browse&_srch=%23toc%235836%232002%23996999998%23368867!&_cdi=5836&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=6ea609da288edbace0bfa71d0f8e622

CY Netherlands Antilles

DT Journal

LA English

ED Entered STN: 20030707
Last Updated on STN: 20030707

L8 ANSWER 35 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2002:191578 CABA
DN 20023143285
TI **Arsenic** hyperaccumulation by different **fern** species
AU Zhao, F. J.; Dunham, S. J.; McGrath, S. P.
CS Agriculture and Environment Division, Rothamsted Research, Harpenden,
Hertfordshire AL5 2JQ, UK. steve.mcgrath@bbsrc.ac.uk
SO New Phytologist, (2002) Vol. 156, No. 1, pp. 27-31. 17 ref.
Publisher: Blackwell Science. Oxford
ISSN: 0028-646X
DOI: 10.1046/j.1469-8137.2002.00493.x
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20021108
Last Updated on STN: 20021108

L8 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
AN 2001:755667 CAPLUS
DN 135:288208
TI **Soil phytoremediation using ferns.**
IN Ma, Lena Q.; Komar, Ken M.; Kinnelley, Elizabeth D.
PA University of Florida, Gainesville, FL, USA
SO U.S., 14 pp., Cont.-in-part of U.S. 6,280,500.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 5

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 6302942 | B1 | 20011016 | US 2000-546941 | 20000411 |
| | US 6280500 | B1 | 20010828 | US 1999-471566 | 19991223 |
| | US 2002053259 | A1 | 20020509 | US 2001-948969 | 20010907 |
| | US 2004144155 | A1 | 20040729 | US 2004-756237 | 20040112 |
| | US 2004197812 | A1 | 20041007 | US 2004-825993 | 20040416 |
| | US 2005082221 | A1 | 20050421 | US 2004-961932 | 20041008 |
| PRAI | US 1999-129203P | P | 19990414 | | |
| | US 1999-471566 | A2 | 19991223 | | |
| | US 2000-546941 | A3 | 20000411 | | |
| | US 2001-948969 | B2 | 20010907 | | |
| | US 2004-756237 | A2 | 20040112 | | |
| | US 2004-825993 | A2 | 20040416 | | |

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 37 OF 39 CABA COPYRIGHT 2005 CABI on STN
AN 2002:20359 CABA
DN 20013018524
TI A **fern** that hyperaccumulates **arsenic**. A hardy,
versatile, fast-growing plant helps to remove **arsenic** from
contaminated soils
AU Ma, L. Q.; Komar, K. M.; Tu Cong; Zhang WeiHua; Cai Yong; Kinnelley, E.
D.; Tu, C.; Zhang, W. H.; Cai, Y.
CS Soil and Water Science Department, University of Florida, Gainesville,
Florida 32611-0290, USA.
SO Nature (London), (2001) Vol. 409, No. 6820, pp. 579. 5 ref.
Publisher: Nature Publishing Group. London
ISSN: 0028-0836
DOI: 10.1038/35054664
CY United Kingdom
DT Journal
LA English
ED Entered STN: 20020207
Last Updated on STN: 20040216

L8 ANSWER 38 OF 39 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
DUPLICATE 6

AN 2001-03755 BIOTECHDS
TI Novel method for the removal of pollutants, e.g. arsenic, from
contaminated materials by growing fern plant on the material;
 bioremediation
AU Lena Q M; Ken M K; Kennelley E D
PA Univ. Florida
LO Gainesville, FL, USA.
PI WO 2000061822 19 Oct 2000
AI WO 2000-US9615 11 Apr 2000
PRAI US 1999-471566 23 Dec 1999; US 1999-129203 14 Apr 1999
DT Patent
LA English
OS WPI: 2001-015707 [02]

L8 ANSWER 39 OF 39 ENVIROENG COPYRIGHT 2005 CSA on STN
AN 2005007925 ENVIROENG
DN 06252108
TI Uptake and distribution of selenium in different fern species
AU Srivastava, M.; Ma, L.Q.; Cotruvo, J.A.
eMail: Lqma@ufl.edu
CS Soil and Water Science Dept., University of Florida, Gainesville, FL
32611-0290, USA
SO International Journal of Phytoremediation, vol. 7, no. 1, pp. 33-42,
2005, 20050000
ISSN: 1522-6574
DT Journal
LA English